

AES Technical Bulletin

Fuel Stirrers

Product models covered: Magnum Countryside (3500P, 3500L, 3502, J3500) and 7500 Furnace, Country Flame Little Rascal (LR-01), Harvester (HR-01) & Crossfire (CFO4-P) models.

Excessive wear, warping, breakage and short life of the fuel stirrer is caused by fuel conditions, installation configuration and operation of the appliance. Normal life expectancy of a fuel stirrer should be 1-2 seasons before you will need to change it. If the following items are followed your fuel stirrer will last a long time.

The fuel quality and moisture is correct:

Dirty (debris), wet fuel (over 15%) will cause buildup in the firepot. This can cause the fuel stirrer to wear quickly, become jammed or break. Make sure the fuel is clean and dry (11-12% is best).

The fuel load in the firepot is not above the fuel stirrer (1/2" to 3/4" of fuel):

Make sure there is approximately 1/2 to 3/4 inch of fuel in the firepot. Excessive fuel (above the fuel stirrer) will warp the fuel stirrer and wear the fuel stirrer out.

The exhaust venting and outside air hookup is correct:

Check with your local dealer to assure that your venting and outside make-up air is properly installed. Improper venting or inadequate fresh air will cause incomplete combustion and will cause a chemical reaction which will deteriorate the fuel stirrer. This is the leading cause of failure.

Proper balancing of home pressure and air quality:

Negative pressure and poor air quality exists in more than 80 percent of homes today. This will seriously affect the operation of the appliance and cause excessive buildup of fuel in the firepot and cause excessive wear on the fuel stirrer.

Proper operation, daily maintenance of appliance:

If you are having trouble learning how to operate the unit, contact your local dealer for instruction. Hitting on the fuel stirrer especially when it is hot may bend the fuel stirrer or break it. If the fuel stirrer has excessive buildup on it use a clean burn additive to eliminate this. If you let the unit cool for a couple hours the buildup will dissolve and can easily be removed.

